

User Manual

TesiP@n Web Panel

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1 Important Notes

1.1 Symbols

The symbols in this manual are used to draw your attention on notes and dangers.



Danger

This symbol is used to refer to instructions which, if ignored or not carefully followed could result in personal injury.



Notes

This symbol indicates application tips or supplementary notes.



Reference to source of information

This symbol refers to detailed sources of information on the current topic.

1.2 Safety Notes

- Read this manual carefully before using the operating device. Keep this manual in a place where it is always accessible to all users.
- Proper transportation, handling and storage, placement and installation of this product are prerequisites for its subsequent flawless and safe operation.
- This user manual contains the most important information for the safe operation of the device.
- The user manual, in particular the safety notes, must be observed by all personnel working with the device.
- Observe the accident prevention rules and regulations that apply to the operating site.
- Installation and operation must only be carried out by qualified and trained personnel.

1.2.1 Intended Use

- The device is designed for use in the industry.
- The device is state-of-the art and has been built to the latest standard safety requirements. However, dangerous situations or damage to the machine itself or other property can arise from the use of this device.
- The device fulfills the requirements of the EMC directives and harmonized European standards. Any modifications to the system can influence the EMC behavior.



This is a class A device. This device may cause radio interference in residential areas. In this case, the user may be required to introduce appropriate countermeasures, and to bear the cost of same.

1.3 Target Group

All configuration, programming, installation, commissioning, operating and maintenance work in connection with the automation system must be performed by trained personnel only (e.g. qualified electricians, electrical engineers, etc.).

The configuration and programming personnel must be familiar with the safety concepts of automation technology.

2 Commissioning and Maintenance



Commission the device as described in the chapter on **Mounting and Commissioning** of the user manual for the device.

After applying the supply voltage, the operating device launches the BootLoader from the internal Flash memory. During this process, the status LEDs keep flashing at short intervals.

When the boot process is complete, the desktop of the Windows CE operating system appears.

The desktop contains icons for the following items:

- Recycle Bin
- Explorer (My Computer)
- Internet Explorer for CE (IE for CE)
- Pocket Internet Explorer (Internet Explorer).

2.1 Help Keys



Use this key to show a soft keyboard. To hide the keyboard, press the key again.



Use this key to open the Task Manager in order to change to another task or use this key to close the Task Manager. When you press this key again, the dialog for changing to another task is closed.



Use this key to open the Service tool. To exit the Service tool, press the key again.



Use this key to open the context menu, which can usually be reached by pressing the right mouse button.



Use this key to set the contrast and the brightness.

To define the contrast / brightness setting, use the key combinations shown below as follows:

To increase the contrast:



To reduce the contrast:



To increase the brightness:



To reduce the brightness:



2.1.1 Soft Keyboard

When you call-up the soft keyboard, it initially displays only small (lower case) characters, numbers and those special characters that are available on a hardware keyboard when the Shift key is not pressed.



Figure 2-1 Soft keyboard with small (lower case) characters

When you tab the Shift key, the software keyboard provides large (upper case) characters and those special characters that are available on a hardware keyboard when the Shift key is pressed.

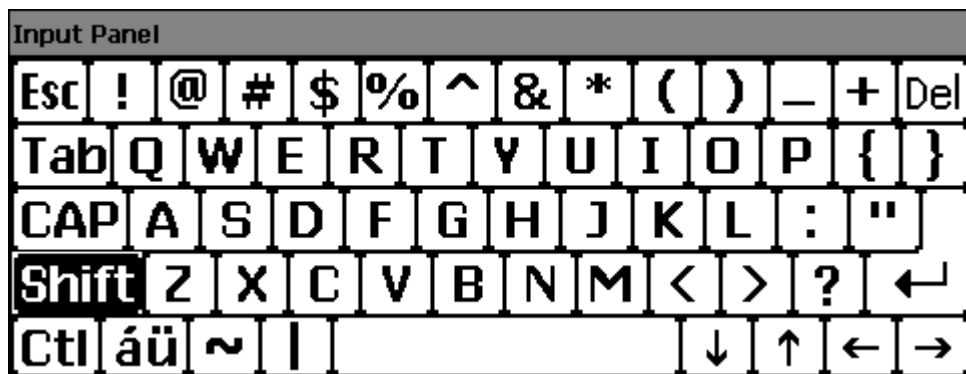


Figure 2-2 Soft keyboard with large (upper case) characters

2.2 Updating the Operating System

The new operating system must be located on a Compact Flash card. From this card, the new operating system is loaded into the internal Flash memory of the TesiP@n device.

To load the new operating system into the TesiP@n device, carry out the following steps:

1. Plug the Compact Flash card containing the new operating system into the TesiP@n device.
2. Connect the device to the supply voltage.
3. Launch the Windows Explorer.
4. Open the **Storage Card** directory.
5. Launch the **Update OS** program by double-tapping the corresponding icon.

The program is launched and displays the following dialog:

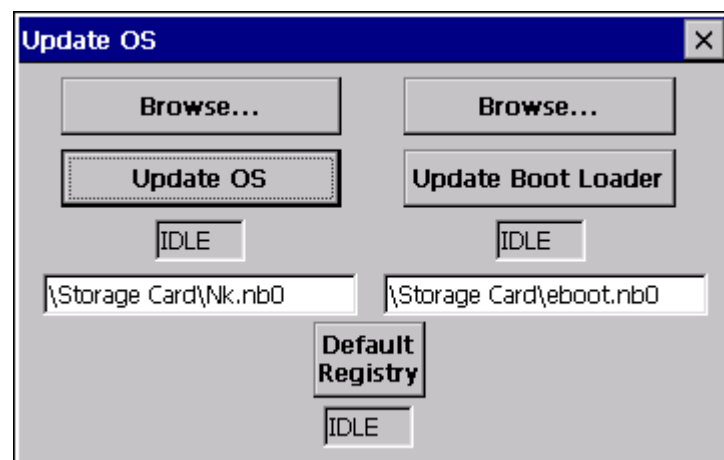


Figure 2-3 Update OS program

6. Tap the **Browse...** button to select the file **NK.NB0** on the memory card, provided its name is not already displayed in the dialog.
7. Tap the **Update OS** button to start the loading process.

The operating mode changes from **IDLE** to **RUN**. Once the operating system has been completely transferred, the operating mode changes from **RUN** back to **IDLE** and the following window appears:

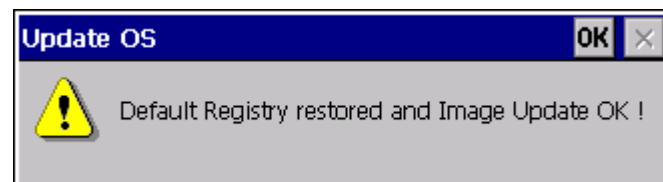


Figure 2-4 Update OK! message

8. Tap **OK** once to close the message window.
9. Exit the Update OS program.

When the TesiP@n device is started the next time, it is booted with the new operating system.

2.3 Updating the Boot Loader

The new Boot loader must be located on a Compact Flash card. From this card, the new Boot loader is loaded into the internal Flash memory of the TesiP@n device.

To load the new Boot loader into the TesiP@n device, carry out the following steps:

1. Plug the Compact Flash card containing the new Boot loader into the TesiP@n device.
2. Connect the device to the supply voltage.
3. Launch the Windows Explorer.
4. Open the **Storage Card** directory.
5. Launch the **Update OS** program by double-tapping the corresponding icon.

The program is launched and displays the following dialog:

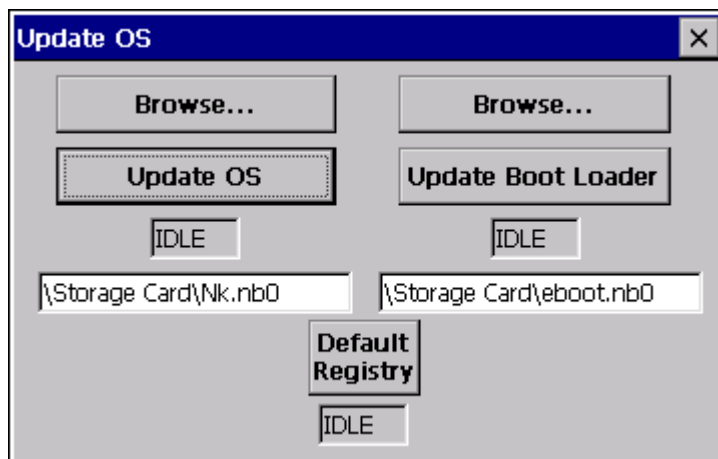


Figure 2-5 Update OS program

6. Tap the **Browse...** button to select the file **EBOOT.NB0** located on the memory card, provided its name is not already displayed in the dialog.
7. Tap the **Update Boot Loader** button to start the loading process.

The operating mode changes from **IDLE** to **RUN**. Once the transfer process is complete, the operating mode changes from **RUN** back to **IDLE**.

8. Exit the Update OS program.

When the TesiP@n device is started the next time, it is booted with the new Boot loader.

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3 Configuration with the Service Tool

Launch the Service tool to be able to configure the device.

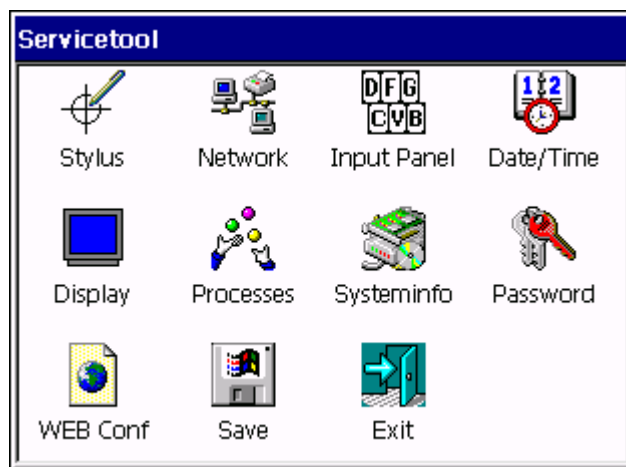


Figure 3-1 Service Tool window

3.1 Calibrating the Touch Screen

1. Tap the Service tool key.
2. Then tap the **Stylus** icon.

The **Stylus Properties** dialog opens.

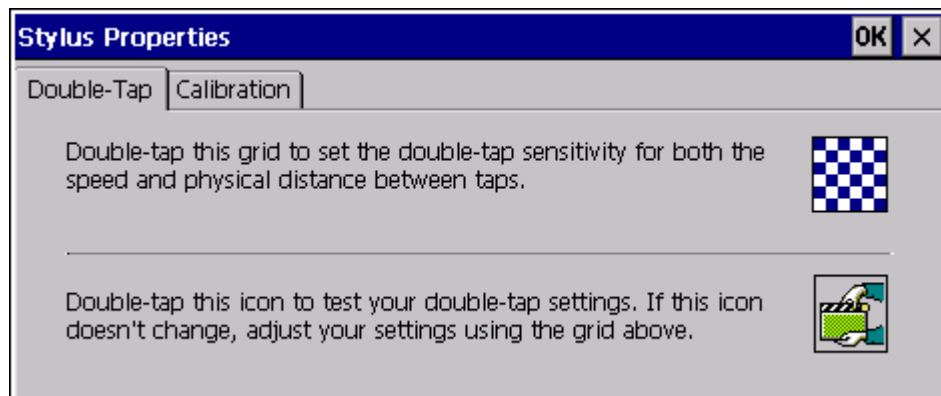


Figure 3-2 Stylus Properties dialog, Double Tap tab

The **Double Tap** index card is displayed by default.

3.1.1 Defining the Double-Tap Settings

To test the settings defined for the „double-tap“, tap the test icon twice.

To change the current double-tap settings, tap the checkered pattern (grid) twice. The speed and the physical distance between the two taps will be recorded as the new double-tap settings.

3.1.2 Calibrating the Touch Screen

Open the **Calibration** index card.

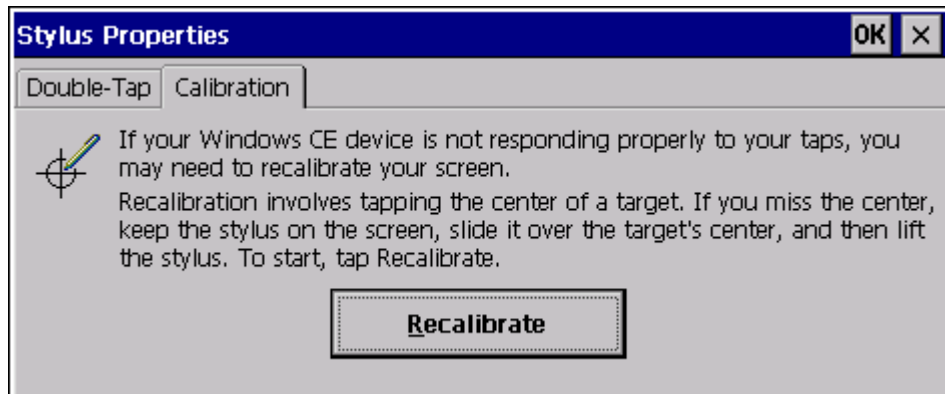


Figure 3-3 Stylus Properties dialog, Calibration tab

To change the calibration settings of the touch screen carry out the following steps:

1. Tap the **Recalibrate** button to start the calibration process.
2. Tap and hold the center of the cross (precisely the center) until the cross changes its position.

The calibration process is complete when the cross disappears. At this point, the changes still need to be saved. The device waits 30 seconds for you to tap the touch screen for this purpose. If you do not tap the touch screen within this time period, the new settings will not be stored. In this case, the device continues to work with the old settings.

3.2 Configuring the Network

1. Tap the Service tool key.
2. Then tap the **Network** icon.

The **Network Configuration** dialog opens.

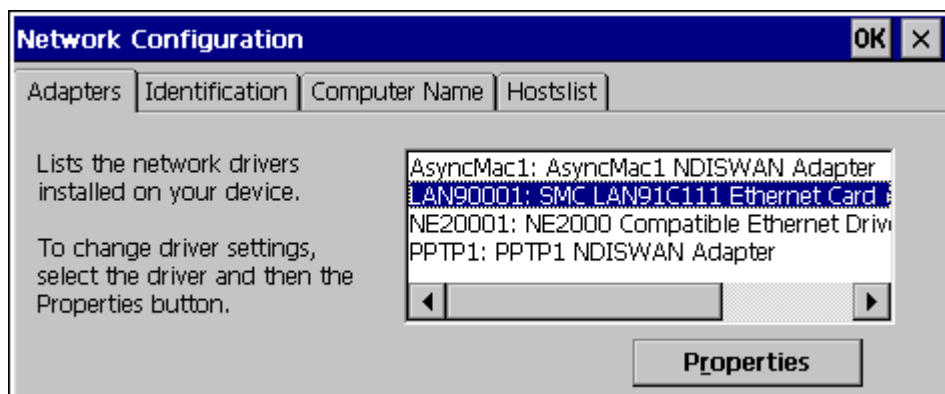


Figure 3-4 Network Configuration dialog, Adapters index card

1. Select the network adapter **LAN90001**.
2. Tap the **Properties** button to change the adapter settings.

The dialog for specifying the adapter settings opens.

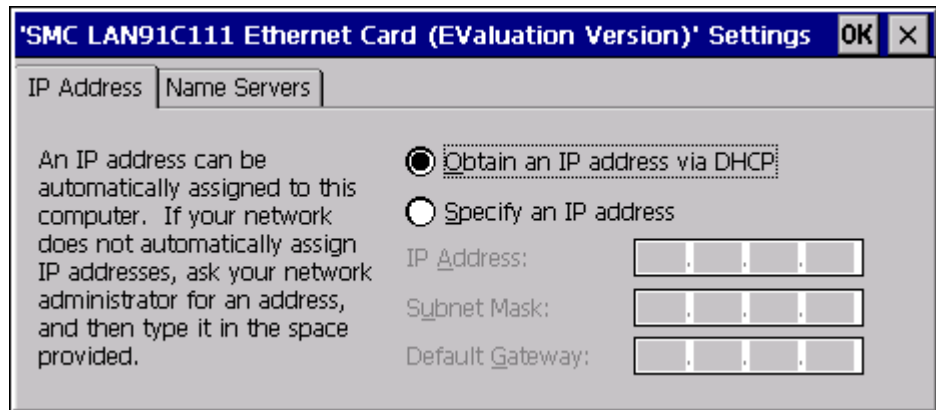


Figure 3-5 Network Configuration dialog, IP Address index card

The **IP Address** index card is displayed by default.

3. Specify whether you want the DHCP service to assign an IP address to the device dynamically.
4. If you are unable to use DHCP, enter at least one fixed IP address and one subnet mask.
5. Then open the **Name Servers** index card.

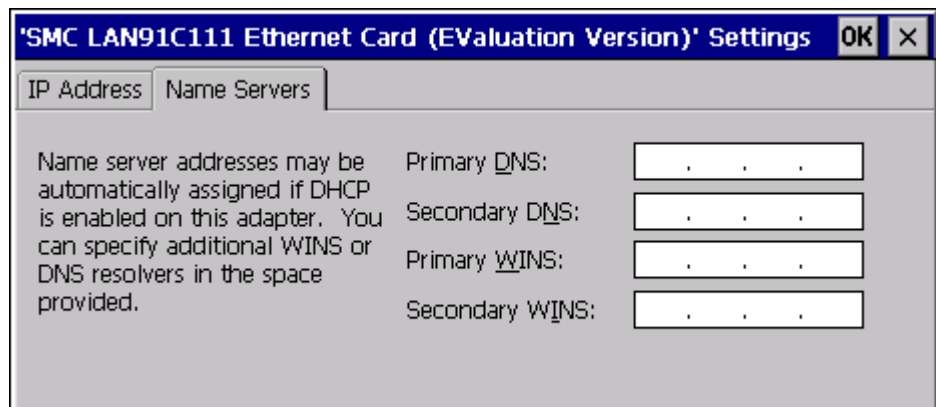


Figure 3-6 Network Configuration dialog, Name Servers index card

6. If you do not have the DHCP service assign the IP addresses dynamically, enter the IP address of the DNS server and of the WINS server into this index card.
7. Click **OK** to close the dialog.

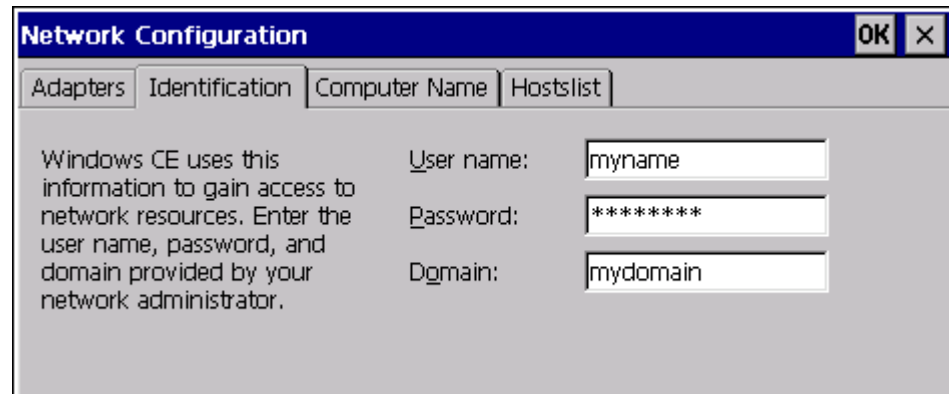


For the IP address settings to become active, the device must be restarted!

The **Adapters** index card is displayed again.

To enter the user name which you use to log on to an enabled network drive, carry out the following steps:

1. Open the **Identification** index card.



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Figure 3-7 Network Configuration dialog, Identification index card

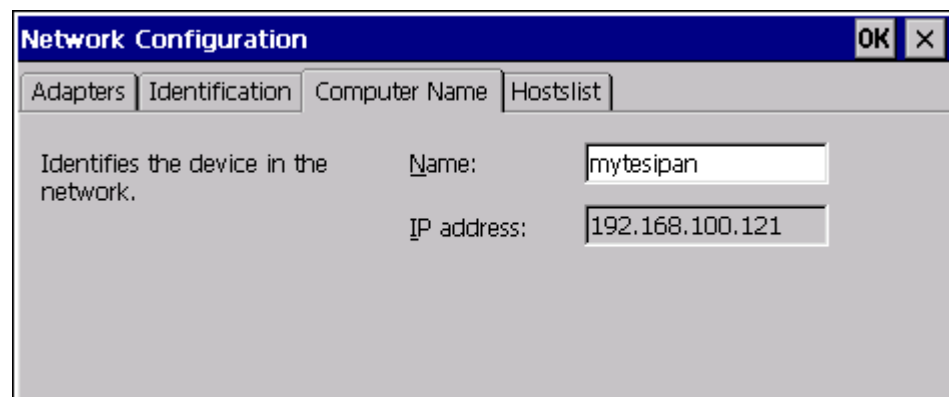
2. Enter your user name into the **User name** field.
3. Enter your password into the **Password** field.
4. Enter the name of the domain into the **Domain** field.



The user name, password and domain information are stored in the device. Saving this information represents a general security risk!

To assign the device a unique name with which it will be represented on the Microsoft network, carry out the following steps:

1. Open the **Computer Name** index card.



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Figure 3-8 Network Configuration dialog, Computer Name index card

2. Enter a name for the device into the **Name** field.

To be able to connect to the network drive, you first need to change the preset name.

Your own IP address of the operating device appears in the **IP address** field.

If a name server is not available, you can create a host list so that an assignment between computer names and IP addresses is possible.

To manage the host list carry out the following steps:

1. Open the **Hostslist** index card.

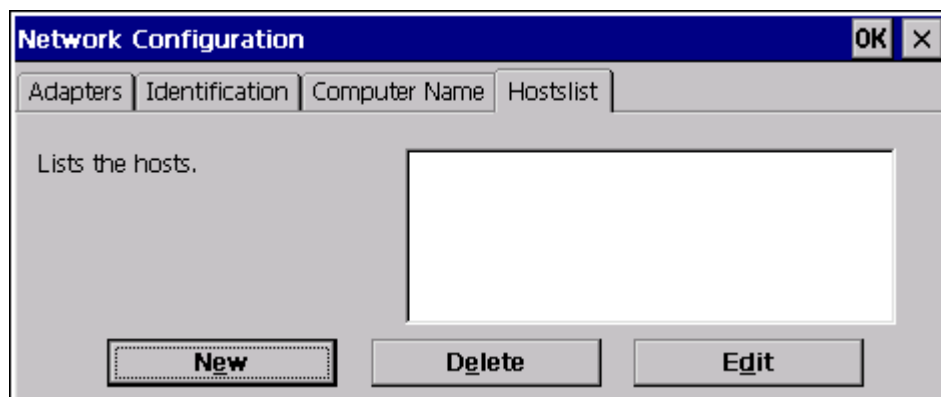


Figure 3-9 Network Configuration dialog, Hostslist index card

2. Tap the **New** button to specify a new host.

The **Host entry** dialog opens.

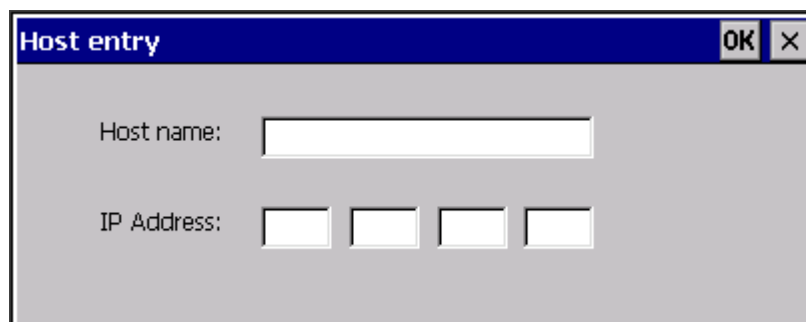


Figure 3-10 Host Entry dialog

3. Enter the new host name into the **Host name** field.
4. Enter the associated IP address into the **IP Address** fields.
5. Tap **OK** to confirm the entered information.

The **Hostslist** index card is displayed again.

6. To delete a selected entry from the host list, tap the **Delete** button.
7. To edit a selected host list entry, tap the **Edit** button.
8. Then tap **OK** to confirm your settings.



At this point, the entered settings have not been saved yet! To save the settings you need to tap either the **Save** button or the **Exit** button in the **Service tool** window.

3.3 Configuring the Soft Keyboard

1. Tap the Service tool key.
2. Then tap the **Input Panel** icon.

The **Input Panel Properties** dialog opens.

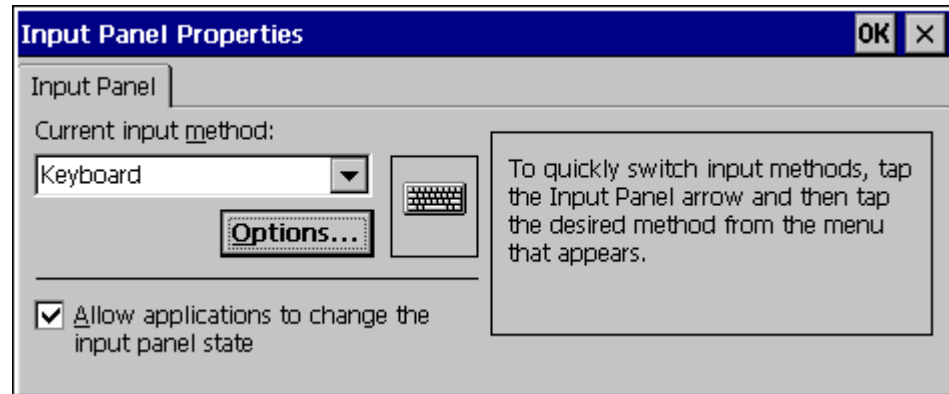


Figure 3-11 Input Panel Properties dialog

In the **Current input method** field, you see the current selection for the soft keyboard input device. These settings cannot be changed.

1. Tap the **Options** button.

The **Soft Keyboard Options** dialog opens.

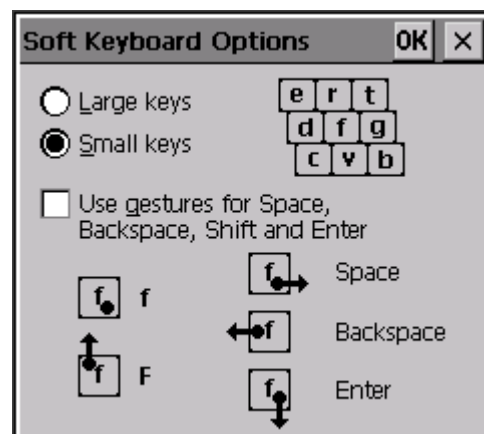


Figure 3-12 Soft Keyboard Options dialog

The dialog displays the current settings for the soft keyboard.

2. Select the **Large keys** radio button if you want the keyboard to be displayed with large (upper case) keys.
3. Select the **Small keys** radio button if you want the keyboard to be displayed with small (lower case) keys.
4. Tick the **Use gestures...** check box to replace the functions of the space, backspace, Enter and Shift keys by carrying out specific gestures. In this case you would have to do the following:
 - To enter the character which a key stands for, tap the key.
 - To enter the character assigned to the shift function, tap the key and carry out an upward sweeping movement.
 - To enter a space, tap any key and carry out a sweeping movement to the right.

- To move one digit to the left and to delete the digit in the process, tap any key and carry out a sweeping movement to the left.
 - To actuate the Enter key, tap any key and carry out a downward sweeping movement.
5. Tap **OK** to confirm your settings.

The **Input Panel Properties** dialog appears again.

6. Complete your settings by tapping **OK**.

3.4 Setting the Date and Time



Date and time settings are saved only on devices that are equipped with a battery.

1. Tap the Service tool key.
2. Then tap the **Date/Time** icon.

The **Date/Time Properties** dialog opens.

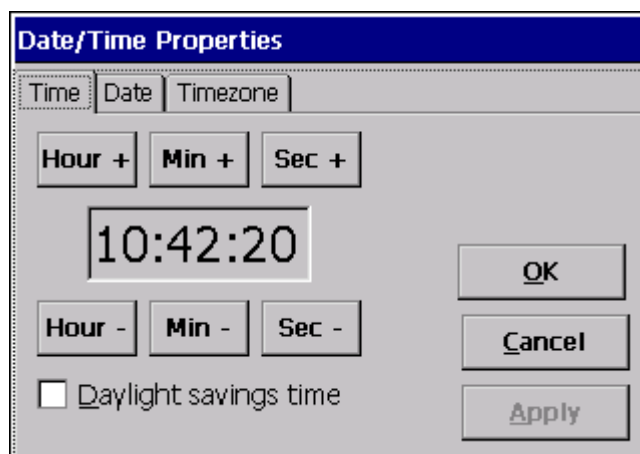


Figure 3-13 Date/Time Properties dialog, Time index card

The **Time** index card is displayed by default.

The current time setting is shown in the center section of the index card.

To change the time setting, carry out the following steps:

1. To set the hours, tap the **Hour+** and **Hour-** buttons.
2. To set the minutes, tap the **Min+** and **Min-** buttons.
3. To set the seconds, tap the **Sec+** and **Sec-** buttons.
4. To switch to summer time, tick the **Daylight savings time** check box.

To change the date setting, carry out the following steps:

1. Open the **Date** index card.

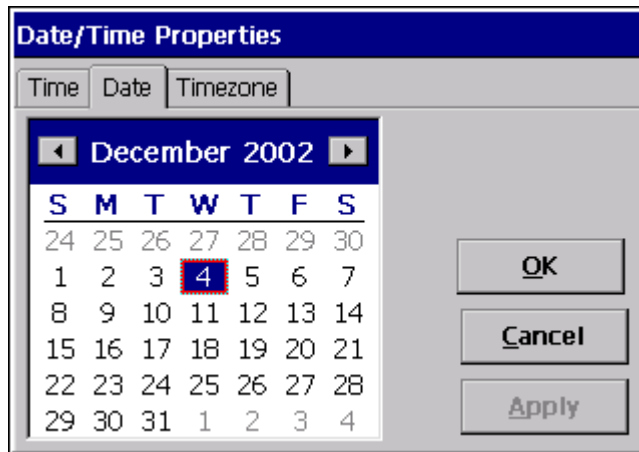


Figure 3-14 Date/Time Properties dialog, Date index card

The calendar page shows the current date setting.

2. To set the month and year, tap the right and left arrows.
3. To set the day, tap the number for the corresponding day.

To change the time zone setting, carry out the following steps:

1. Open the **Timezone** index card.

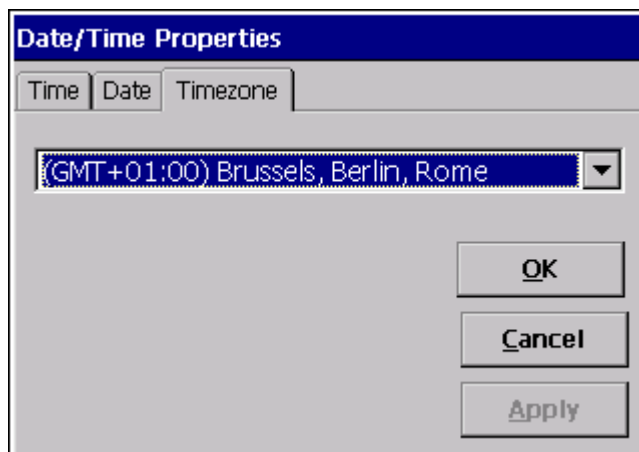


Figure 3-15 Date/Time Properties dialog, Timezone index card

2. To open a list with the time zones, tap the down arrow.
3. To navigate to the appropriate time zone, tap the up and down arrows.
4. To select a time zone, tap the name of the appropriate time zone.
5. Tap **OK** to confirm your settings.

3.5 Configuring the Display

1. Tap the Service tool key.
2. Then tap the **Display** icon.

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The **Display** dialog opens.

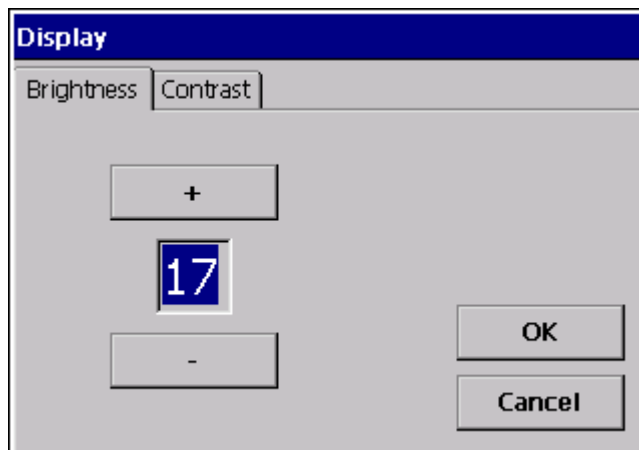


Figure 3-16 Display dialog, Brightness index card

The **Brightness** index card is displayed by default.

The current brightness setting for the display is shown in the center section of the index card.

To change the brightness setting, carry out the following steps:

1. To increase the brightness, tap the + button.
2. To decrease the brightness, tap the - button.

To change the contrast setting, carry out the following steps:

1. Open the **Contrast** index card.

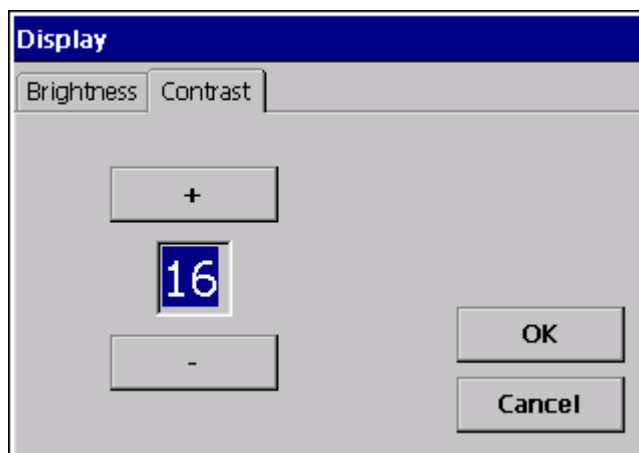


Figure 3-17 Display dialog, Contrast index card

2. To increase the contrast, tap the + button.
3. To decrease the contrast, tap the - button.
4. Tap **OK** to confirm your settings.

3.6 Viewing the Process List

The process list displays a list of all current processes and either of the modules or of the threads.

1. Tap the Service tool key.
2. Then tap the **Processes** icon.

The **ProcessViewer** window opens.

ProcessViewer						
Processes View 						
Process	CPU-Usage (%)	Time (User Mode)	Time (Kernel Mode)	PID	Num. Threads	
Idle	90.7					
maapp.exe	0.0	00:00:00.109		8CCA01EE	2	
rapidrv.exe	4.5	00:00:00.696		8CC991DA	4	
repllog.exe	0.4	00:00:00.156		8CEF76E6	2	
servicetool	1.5	00:00:26.641		8CF8D78E	2	
explorer.exe	0.1	00:00:01.785		8CDC687E	3	
gwes.exe	0.0	00:00:00.850	00:00:00.011	8CED6856	8	
device.exe	2.6	00:00:10.287		8CFD8886	32	
matrxscanner...	0.0	00:00:00.008		CD6436	2	
filesys.exe	0.0	00:00:02.157		CFECC7A	1	
NK.EXE	0.0	00:00:00.308		CFEF002	1	

Module Name	HModule	Global Usage	Lokal Usage	Base Address	Base Size	Full Path
coredll.dll	8CFE950	103	7	33030144	487424	\Windows\coredll.dll
winsock.dll	8CFA4880	20	1	30343168	36864	\Windows\winsock.dll
ole32.dll	8CF8611C	6	5	27787264	491520	\Windows\ole32.dll
ipctrt4.dll	8CF86498	8	5	27131904	327680	\Windows\ipctrt4.dll
ipctrt.dll	8CF866E4	8	5	26901376	20480	\Windows\ipctrt.dll
asform.dll	8CD88000	4	4	21954560	102400	\Windows\asform.dll
oleaut32.dll	8CD886CC	5	5	27590656	188416	\Windows\oleaut32.dll
ceshell.dll	8CD88AA0	3	3	21626880	315392	\Windows\ceshell.dll
commctrl.dll	8CD88CA0	6	3	32440320	299008	\Windows\commctrl.dll
webview.dll	8CDAD830	1	1	20905984	532480	\Windows\webview.dll
imgdecmp.dll	8CDADB14	1	1	21495808	126976	\Windows\imgdecmp.dll
wininet.dll	8CDADD88	1	1	25427968	405504	\Windows\wininet.dll
ieccext.dll	8CDA10E4	1	1	26017792	53248	\Windows\IECCExt.dll
shlwapi.dll	8CDA1348	1	1	25886720	102400	\Windows\shlwapi.dll

Figure 3-18 ProcessViewer window

This window displays all currently executed processes.

To refresh the process screen, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Refresh** menu item.



You can also refresh the screen by tapping the Refresh icon.

To have the screen refreshed automatically, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Update (auto.)** menu item.

A dot is displayed next to the **Update (auto.)** menu item.

To display the modules, carry out the following steps:

1. Open the **View** menu.
2. Tap the **Modules** menu item.

A dot is displayed next to the **Modules** menu item.

To display the threads, carry out the following steps:

1. Open the **View** menu.
2. Tap the **Threads** menu item.

A dot is displayed next to the **Threads** menu item.

To exit the process list, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Exit** menu item.

3.7 System info

1. Tap the Service tool key.

2. Then tap the **Systeminfo** icon.

The **Systeminfo** window opens.

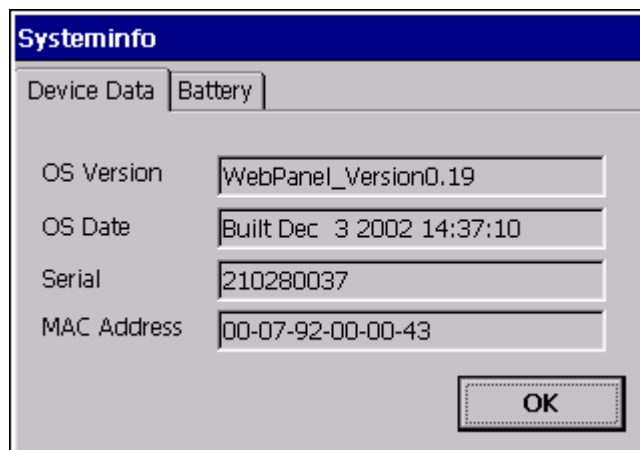


Figure 3-19 Systeminfo window, Device Data index card

The **Device Data** index card is displayed by default.

The following information is shown on this card:

- OS Version = Operating system Kernel
- OS Date = Date when Kernel was created
- Serial = Serial number of the device
- MAC Address = MAC address of the LAN interface

To check the status of the battery, carry out the following steps:

1. Open the **Battery** index card.



Figure 3-20 Systeminfo window, Battery index card

The following status can be displayed:

- | | |
|------------------|---|
| Battery OK | Battery is in good condition |
| No battery found | Battery is drained
or
no battery attached |

3.8 Setting up the Password

The password protection becomes active when the operator attempts to call up the Service tool or the Task Manager from within the running application.

To set up the password carry out the following steps:

1. Tap the Service tool key.
2. Then tap the **Password** icon.

The **Password** dialog opens.

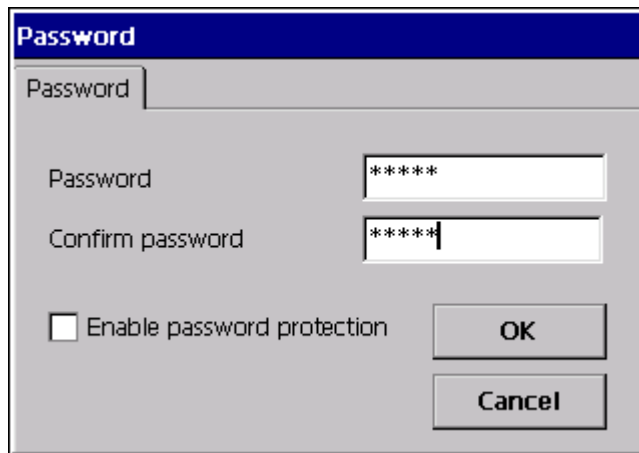


Figure 3-21 Password dialog

3. Enter a password into the **Password** field.
An asterisk will be displayed for each entered character!
4. Enter the same password once more into the **Confirm password** field.
5. Tick the **Enable password protection** check box.

3.9 Configuring Web Applications

1. Tap the Service tool key.
2. Then tap the **WEB Conf** icon.

The wizard opens and assists you in configuring the Web applications.

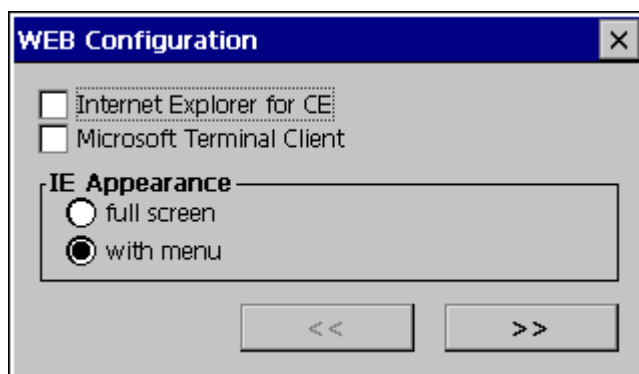


Figure 3-22 Internet Explorer Appearance dialog

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3. Tick the **Internet Explorer for CE** check box if you want the Internet Explorer for CE to be launched automatically after the system is booted. Each time this application is exited, it will be restarted again.
4. Tick the **Microsoft Terminal Client** check box if you want the Microsoft Terminal Client to be launched automatically after the system is booted. Each time this application is exited, it will be restarted again.
5. Tick both check boxes if you want both the Internet Explorer for CE and the Terminal Client to be launched automatically after the system is booted.
6. Do not tick any of these two check boxes if neither of these applications is to be launched automatically after the system is booted.
7. Select the **full screen** radio button if you want to display the Internet Explorer in full screen mode after the system is booted.

In full screen mode, the menus, toolbar and status bar are not displayed.

8. Select the **with menu** radio button to display the Internet Explorer with the menu bar after the system is booted.
9. Then tap the „>>“ button.

The next wizard dialog opens.

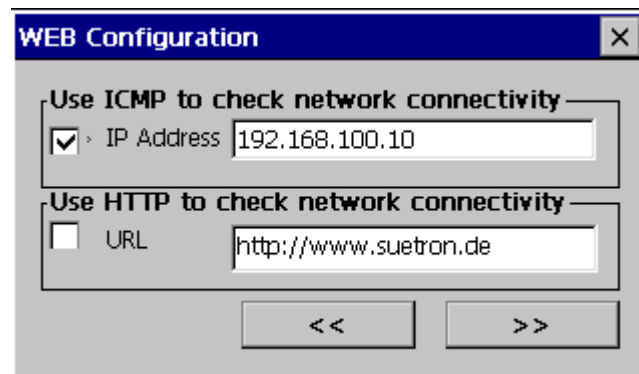


Figure 3-23 Network Connectivity dialog

Every time the Terminal Client is launched, a ping is sent to the IP address specified in this index card. This ping is used to check the network connection. If no response is received after sending two pings, the Terminal Client assumes that there is no connection to the server. In this case, you will receive an error message.

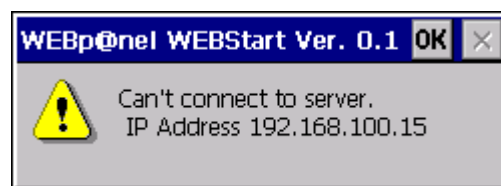


Figure 3-24 Error message - No connection

A similar process takes place with the Internet Explorer which, when launched, sends a HTTP request to the specified URL.

1. Enter an IP address into the **IP Address** field or a URL into the **URL** field.
2. Tick the check box next to the entry if you want the Internet Explorer or the Terminal Client, respectively, to automatically check the network connection with this address.
3. Then tap the „>>“ button.

The next wizard dialog opens.

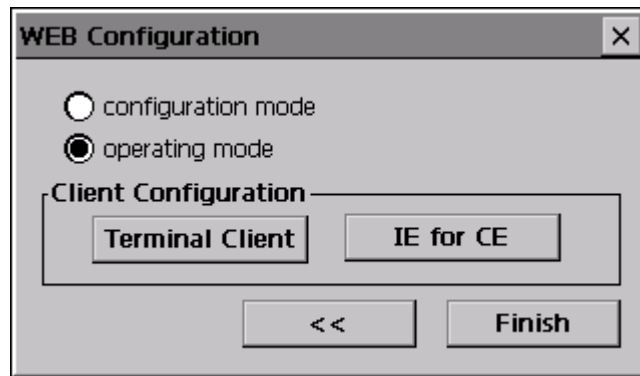


Figure 3-25 Client Configuration dialog

1. If you want this dialog to be open after a restart is performed, select the **configuration mode** radio button.
2. If you want to place the device into the normal operating mode, select the **operating mode** radio button.
3. If you want to launch the wizard which allows you to configure the Terminal Client, tap the **Terminal Client** button.



See „Configuring the Terminal Client“ on page 1-23

4. Tap the **IE for CE** button to launch the Internet Explorer for CE so that you can configure it.



See „Configuring the Internet Explorer for CE“ on page 1-26

5. Tap the **Finish** button to exit the wizard.

You will return to the Service tool. You have the following options to save the changes you made to the registry with the aid of the wizard.

1. Tap the **Save** icon. You will remain within the Service tool. Or...
2. Tap the **Exit** icon.

The **Registry Saving** dialog opens.

3. Tap the **Yes** button to save the changes in the registry.

A message window is displayed while the storage process takes places. Once the storage process is complete, you will return to the desktop.

If you do not save the settings in the registry, they will be lost when a restart is performed.

3.9.1 Configuring the Terminal Client

The Terminal Client can be configured with the aid of a wizard.

1. Launch the wizard by tapping the **Terminal Client** button in the WEB configuration wizard.

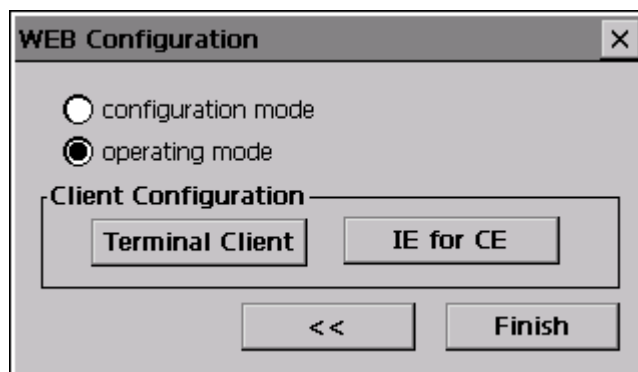


Figure 3-26 Client Configuration dialog

The wizard opens displaying the following dialog:

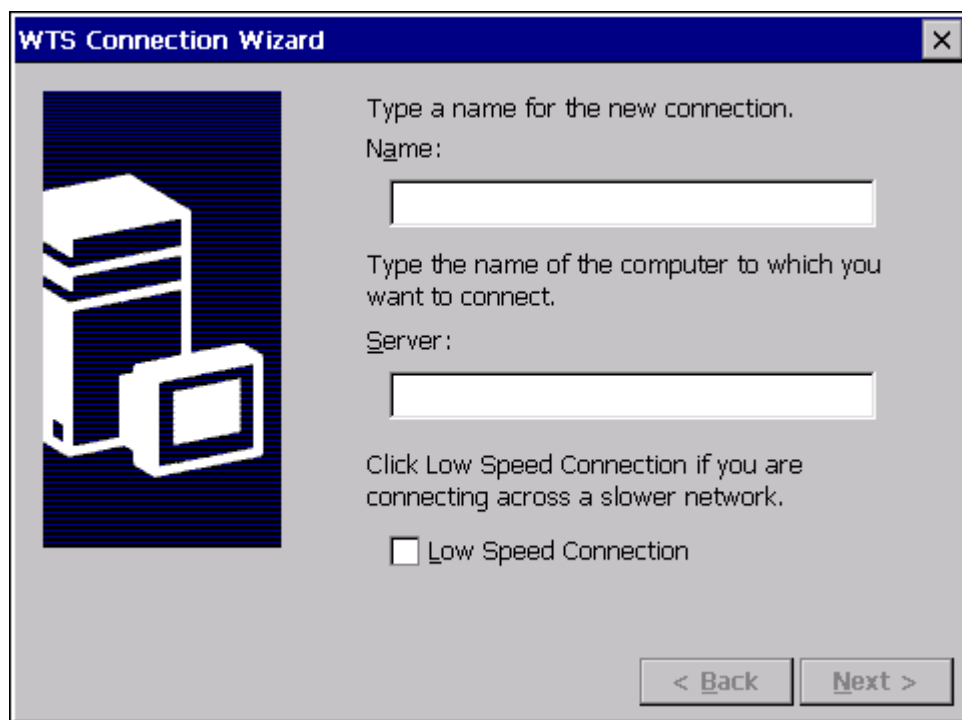


Figure 3-27 First dialog of the WTS Connection Wizard

2. Follow the instructions provided by the wizard and define the necessary settings.



Make sure you enter **srv** into the **Name:** field as the name for the connection. Any other name will not be accepted!

3. To proceed to the next wizard dialog, tap the **Next >** button.
4. To return to the previous wizard dialog, tap the **< Back** button.
5. To accept the settings, tap the **OK** button.

This will return you to the **WEB Conf** wizard.

6. Tap the **Finish** button to exit the wizard.

The **Servicetool** window is displayed.

7. Tap either the **Save** or the **Exit** icon to save the settings.

3.9.1.1 Changing the Terminal Client Settings

You can change an existing Terminal Client configuration via a dialog.

1. Open the corresponding dialog by tapping the **Terminal Client** button in the WEB configuration wizard.

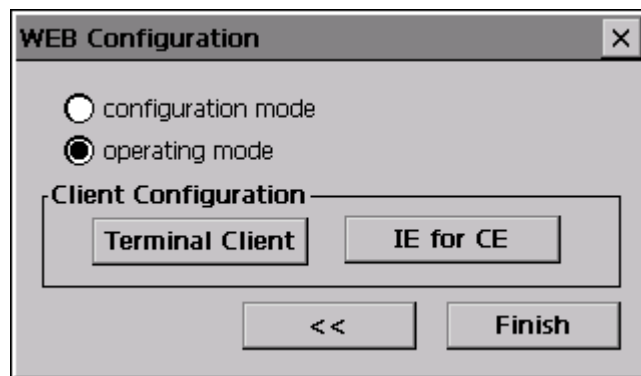


Figure 3-28 Client Configuration dialog

The **Edit Connection** dialog opens and the **Net Connections** index card is displayed by default.

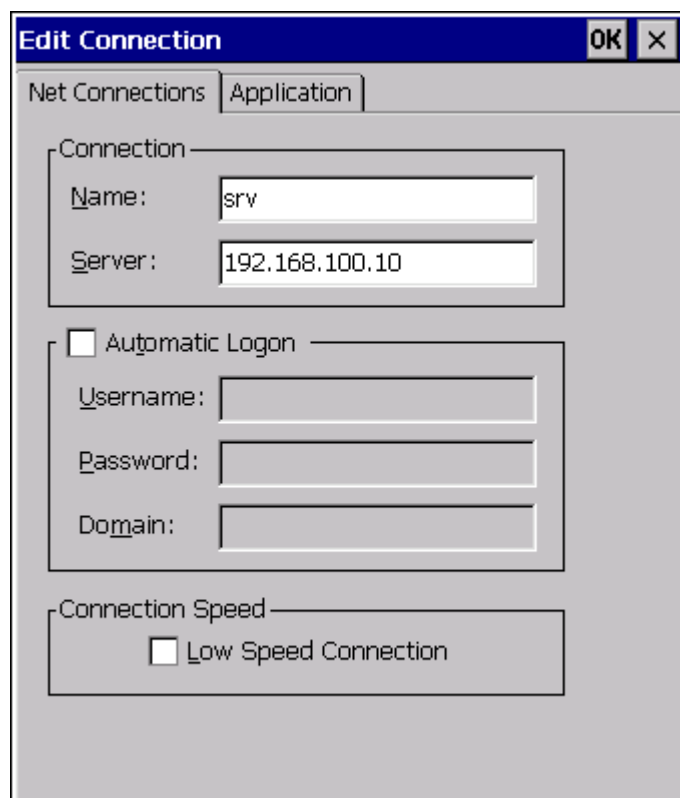


Figure 3-29 Edit Connection dialog, Net Connections index card

This index card allows you to change the following settings:

- Name of the connection,

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- IP address of the server (server for the connection),
- Automatic Logon,
- User Name,
- Password,
- Domain,
- Connection Speed (Low Speed Connection).

Tap the **Application** tab to open the **Application** index card.

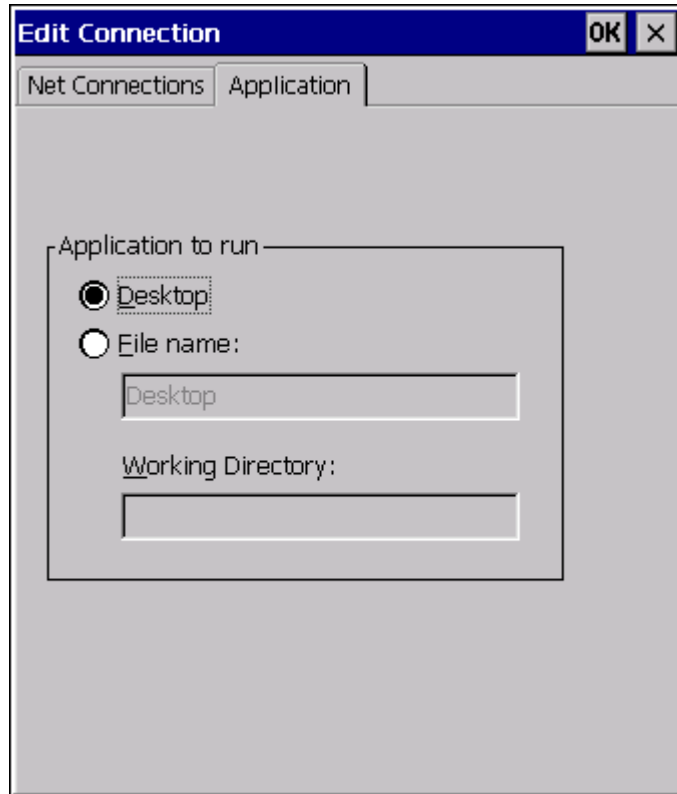


Figure 3-30 Edit Connection dialog, Application index card

This index card allows you to change the following settings:

- Activation or deactivation of the automatic application launch,
- Application name,
- Working directory.

3.9.2 Configuring the Internet Explorer for CE

You can configure the Internet Explorer for CE in the **Internet Options** dialog of the Internet Explorer for CE.

1. Launch the Internet Explorer for CE by tapping the **IE for CE** button in the WEB configuration wizard.

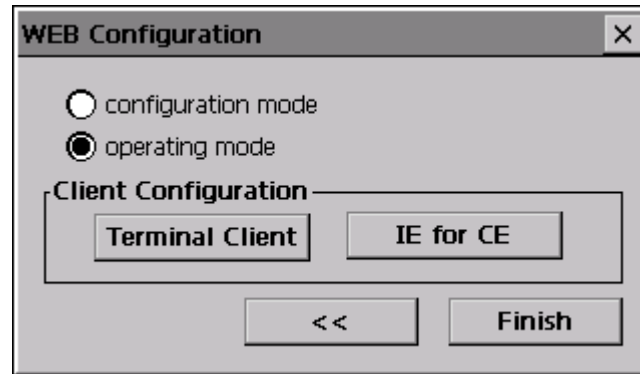


Figure 3-31 Client Configuration dialog

The Internet Explorer for CE opens. To configure the Internet Explorer, carry out the following steps:

2. Tap the **View** menu.
3. Tap the **Internet Options** menu item.

The **Internet Options** dialog opens.



Figure 3-32 Internet Options dialog

4. Define the required settings.
5. To accept the settings, tap the **OK** button.
6. Exit the Internet Explorer for CE.

The **WEB Conf** wizard is displayed again.

7. Tap the **Finish** button to exit the wizard.

The **Servicetool** window is displayed.

8. Tap either the **Save** or **Exit** icon to save the settings.

4 Applications

The following application descriptions outline various scenarios for the use of the TesiP@n device.

4.1 Using the Device as a Terminal Client

4.1.1 One Client - One Application

On the server side, one application is executed which is operated and displayed by the client.

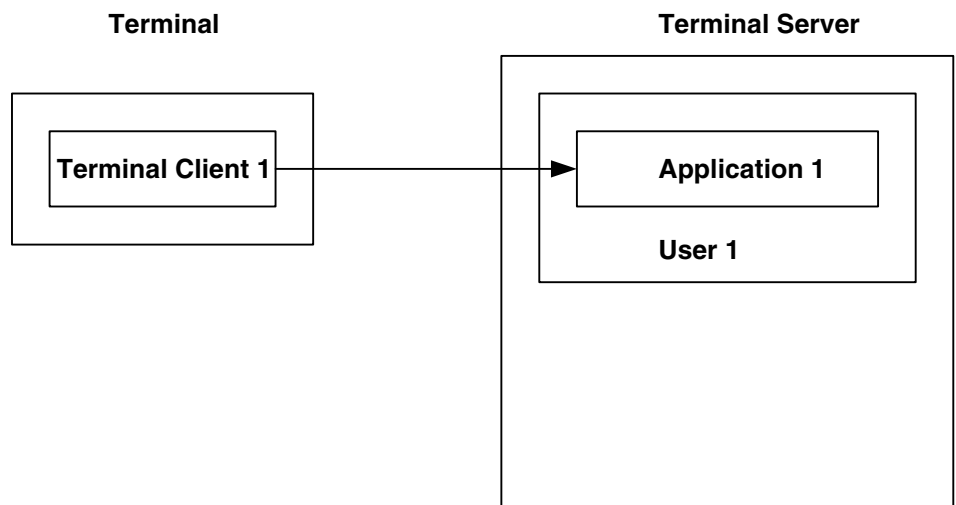


Figure 4-1 Scenario 1

4.1.2 Multiple Clients - Multiple Applications

On the server side, several applications are executed separately from one another. Each single application is operated and displayed by only one client.

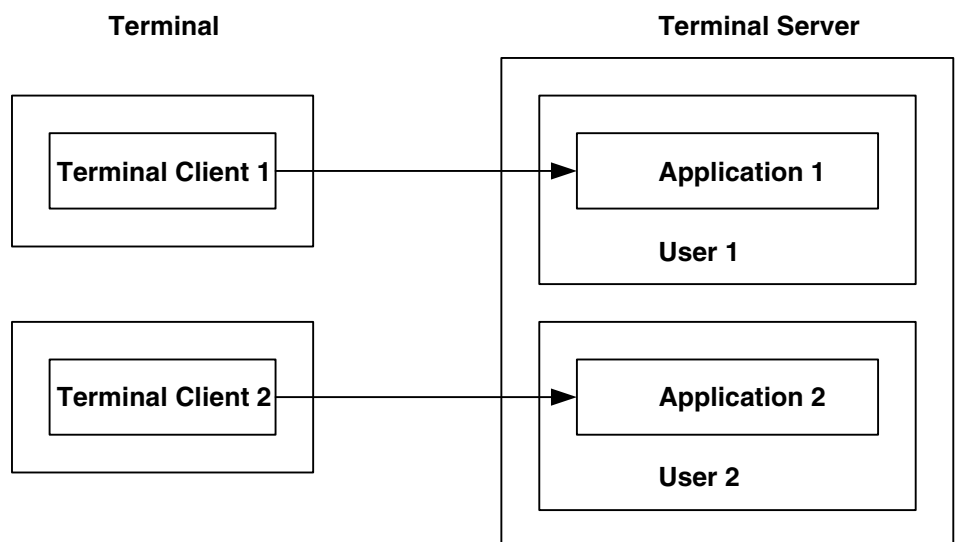
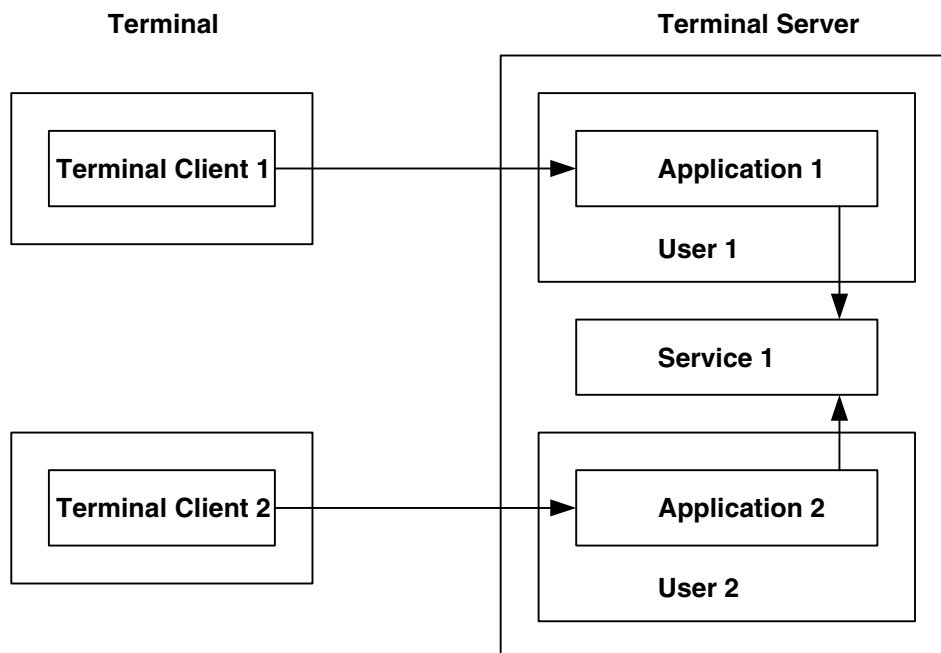


Figure 4-2 Scenario 2

4.1.3 Multiple Clients - Multiple Applications - One Shared Service

On the server side, several applications are executed separately from one another. Each single application is operated and displayed by only one client. All of the applications share one service. This service is executed independently from the applications.



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Figure 4-3 Scenario 3

4.1.4 Multiple Clients - Multiple Servers

Different contents are provided on two separate servers. There are two clients running in the terminal. One application is operated and displayed by the first client. Via the application, the client can access an independent service. The HTML pages of the second server are displayed by the second client using a browser.

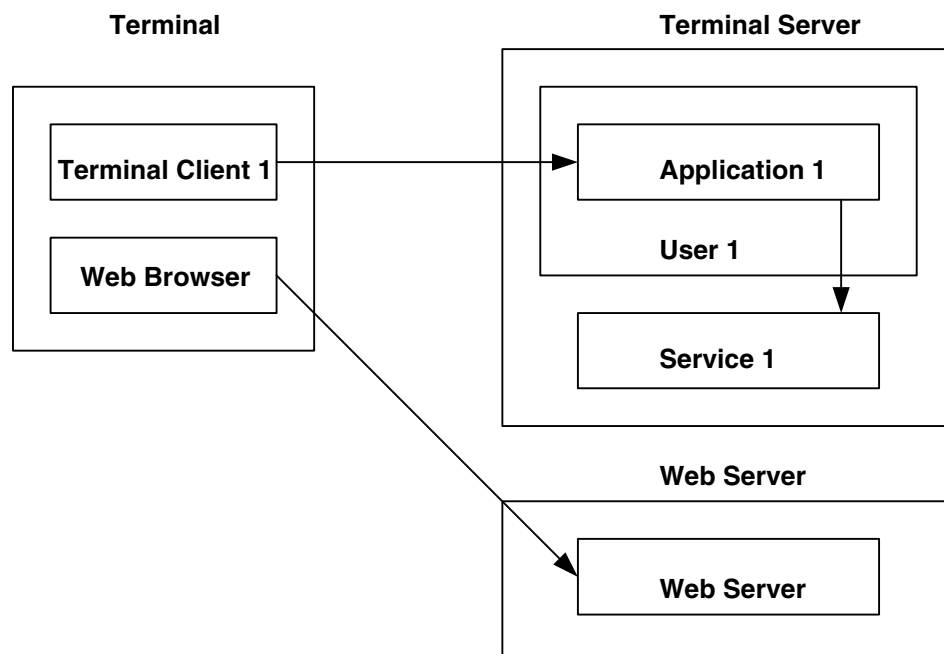


Figure 4-4 Scenario 4

4.2 Using the Device with WEB applications

4.2.1 Displaying Static HTML Pages

On the server side, a Web server provides HTML pages and scripts of a file system. These HTML pages and scripts are displayed by several terminals using a browser.

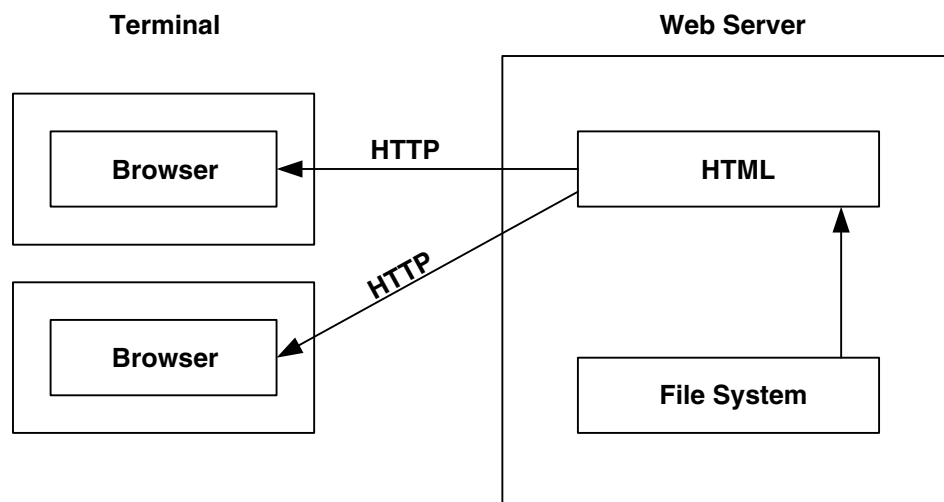


Figure 4-5 Scenario 1

4.2.2 Web Applications with Embedded Web Server

On the server side, a Web server uses a Common Gateway Interface (CGI) to exchange form data with a software controller. The terminal displays the form data in HTML pages using a browser.

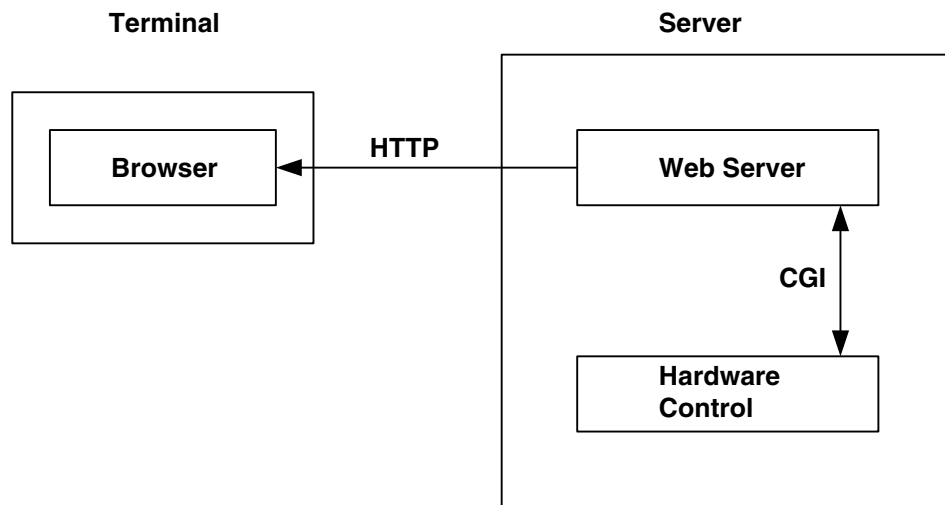


Figure 4-6 Scenario 2

4.2.3 Web Applications with Server Pages

On the server side, a Web server provides HTML pages which were previously updated with current values by a Server Page Machine. Form data are transferred back to the Server Page Machine. The terminal displays the form data in HTML pages using a browser.

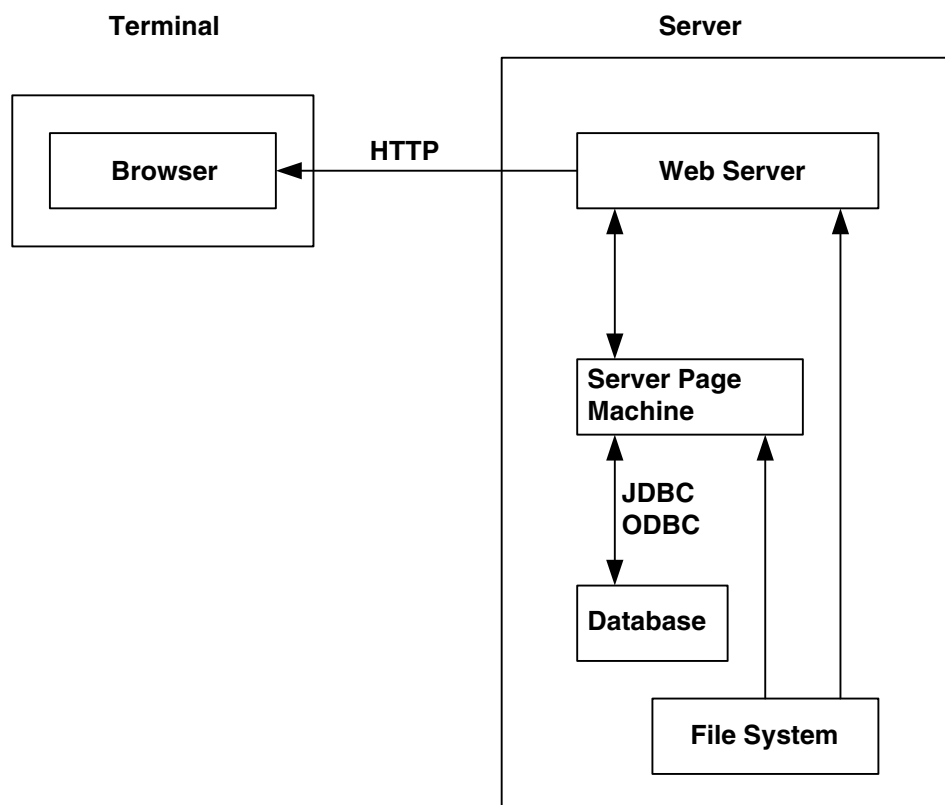


Figure 4-7 Scenario 3

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